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City of Rockville
Boards and Commissions
Application of Expression of Interest

Routed To:
[ ] Council [ ] City Attorney
[ ] City Clerk [ ] Council Support Specialist
[ ] City Manager [ ] Other

Date: 4 Dec 2007

Board/Commission Interested In: Human Rights Board of Appeals

Name: Peter Mark

Address: [redacted] Apt.#

Rockville, MD Zip 20851

Home Phone: ( ) Work Phone ( )

E-Mail: Fax:

Note: Work phone numbers are for staff use only.

Summary of Work Experience: 2 1/2 yrs. at The MITRE Corporation as a database researcher, several years (in school) as a research or teaching assistant

Experience: I served for several years on my condo board, including two years as president. I was also the on site manager + therefore was expected to handle disputes between condo residents or owners

Education/Training: BA in mathematics + Issues in health care, MS + PhD in computer science

Volunteer Activities: coach for Destination Imagination, a program that hones children's creative abilities

Professional Affiliations/Memberships: American Civil Liberties Union

Please describe your interest in serving on this Board/Commission I am a staunch believer in human rights + civil liberties. I have experience as a mediator. I love Rockville and see this as a great opportunity to give back to the community.

Please indicate here [X] yes or [ ] no whether or not the City may give elected officials who serve Rockville (other than the Mayor and Council) your name and address. This information would not be used for any fund-raising, "issues" mailings or campaign mailings. No phone numbers will be given.

RECEIVED
2007 DEC 10 AM 10:51
CITY CLERK'S OFFICE

Please Return Form and Resume, if available, to: Mayor and Council
c/o City Clerk's Office
111 Maryland Avenue
Rockville, MD 20850
240-314-8280

Peter Mork

Contact Information

Rockville, MD 20851

Research Interests

Knowledge management in the life sciences. My goal is to free biologic researchers from managing information, so that they can focus on advancing scientific knowledge.

Current Position

Principal Database Technology Software Engineer

Current and Recent Research

Data Discovery using Digests
Principal Investigator: Peter Mork

This project seeks to facilitate the discovery of structured data resources. We are exploring techniques for advertising the existence of data resources based on a concise summary of the data (a digest). Given a collection of digests, we are also exploring techniques for querying or searching across the digests to identify potentially relevant data resources. Our work seeks to answer the question, "Who has data I need?"

Flexible Data Sharing
Principal Investigator: Len Seligman

This project is exploring techniques that allow field users to extend a shared data management system (with a core schema) to capture locally relevant information (the corona). Once the field user has extended his system, the existence of these extensions are advertised to other users, who can choose to adopt some of the extensions. Over time, particularly useful extensions can be standardized and migrated from the corona into the core.

Netcentric Data Sharing
Principal Investigator: Len Seligman

My work on this project was focused on Harmony, a set of tools we have developed to help match database schemata or to align ontologies. First, the match engine automatically identifies likely semantic correspondences between a set of source schemata (or ontologies) and a set of target schemata. Second, the GUI provides a convenient mechanism for an integration engineer to refine and document these correspondences. Third, the integration workbench provides a generic framework for tools related to data integration tasks, including the match engine and GUI..

Education

PhD in Computer Science & Engineering
University of Washington, Seattle
Dissertation: "Peer Architectures for Knowledge Sharing"
Advisors: Alon Halevy and Peter Tarczy-Hornoch
Expected: Summer 2005

MS in Computer Science
Stanford University, California
June 2000

BA in Mathematics and Issues in Health Care
St. Olaf College, Minnesota
June 1995

guidelines (or other flowcharts). My implementation is now a standard feature of the Protégé-2000 knowledge acquisition tool.

Lucille Packard Children's Hospital
Stanford University, California
1999–2000

I designed a database for clinical research of cystic fibrosis including a graphical user interface and tools for querying the data.

North Memorial Medical Center
Minneapolis, Minnesota
1997–1998

I provided statistical consulting services; project details are covered by non-disclosure.

Additional Employment History

Software Consultant
Client: Monumental Sales, Inc.
St. Cloud, Minnesota
1997–2000

I designed a marketing tool for visualizing grave markers/monuments.

Research Technician
Gantz Wiley Research
Minneapolis, Minnesota
1996–1998

This firm administers customer and employee surveys. I was responsible for designing and maintaining databases, cleaning data, generating reports and performing statistical analyses.

Programming Languages: Java, C#, Visual Basic, XQuery

Database Platforms: SQL Server, DB2, Access, Postgres, MySQL

Teaching

Teaching Assistant
Principles of Database Systems (graduate level)
Instructor: Dan Suciu
University of Washington, Seattle
2002

Teaching Assistant
Introduction to Computer Science
Instructors: Martin Dickey and Richard Anderson
University of Washington, Seattle
2000

Visiting Lecturer
Programming in Java
Stanford University, California
2000

Teaching Assistant
Compilers and Programming in Java
Instructors: David Dill, Maggie Johnson and Neil Daswani
Stanford University, California
1999

Norwegian Language Teacher
Concordia Language Villages, Minnesota
Summers 1993–1996

Donelson. "Expression Array Annotation Using the BioMediator Biologic Data Integration System and the Bioconductor Analytic Platform." *Proceedings of the American Medical Informatics Association (AMIA) Annual Symposium*, American Medical Informatics Association, Washington D.C., November 2003. †

Igor Tatarinov, Zachary Ives, Jayant Madhavan, Alon Halevy, Dan Suciu, Nilesh Dalvi, Xin (Luna) Dong, Yana Kadiyska, Gerome Miklau, and **Peter Mork**. "The Piazza Peer Data Management Project." *SIGMOD Record*, ACM, September 2003; 32(3): 47–52.

Peter Mork. "ACRONYM." *PoCSci'03*, Sieg Hall, UW, September 2003. †

Alon Halevy, Zachary Ives, **Peter Mork**, and Igor Tatarinov. "Piazza: Data Management Infrastructure for Semantic Web Applications." *Proceedings of the Twelfth International WWW Conference*, Association for Computing Machinery (ACM), Budapest, Hungary, May 2003.

Peter Mork, Ron Shaker, Alon Halevy, and Peter Tarczy-Hornoch. "PQL: A Declarative Query Language over Dynamic Biological Schemata." *Proceedings of the American Medical Informatics Association (AMIA) Annual Symposium*, American Medical Informatics Association, San Antonio, TX, November 2002. †

Ron Shaker, **Peter Mork**, Matt Barclay, and Peter Tarczy-Hornoch. "A Rule Driven Bi-Directional Translation System for Remapping Queries and Result Sets Between a Mediated Schema and Heterogeneous Data Sources." *Proceedings of the American Medical Informatics Association (AMIA) Annual Symposium*, American Medical Informatics Association, San Antonio, TX, November 2002.

Peter Mork, Alon Halevy, and Peter Tarczy-Hornoch. "A Model for Data Integration Systems of Biomedical Data Applied to Online Genetic Databases." *Proceedings of the American Medical Informatics Association (AMIA) Annual Symposium*, American Medical Informatics Association, Washington D.C., November 2001. †

Elmer Bernstam, Nachman Ash, Mor Peleg, Samson Tu, Aziz A. Boxwala, **Peter Mork**, Edward H. Shortliffe, and Robert A. Greenes. "Guideline Classification to Assist Modeling, Authoring, Implementation and Retrieval." *Proceedings of the American Medical Informatics Association (AMIA) Annual Symposium*, American Medical Informatics Association, Los Angeles, CA, November 2000.

Mor Peleg, Aziz A. Boxwala, Omolola Ogunyemi, Qing Zeng, Samson Tu, Ronilda Lacson, Elmer Bernstam, Nachman Ash, **Peter Mork**, Lucila Ohno-Machado, Edward H. Shortliffe, and Robert A. Greenes. "GLIF3: The Evolution of a Guideline Representation Format." *Proceedings of the American Medical Informatics Association (AMIA) Annual Symposium*, American Medical Informatics Association, Los Angeles, CA, November 2000.

Peter Mork. "Interrupted Partitions," (solution to) Problem 10629, *American Mathematical Monthly*, January 2000.

Edward Chang, Chen Li, James Wang, **Peter Mork**, and Gio Wiederhold. "Searching Near-Replicas of Images via Clustering." *Proc. of SPIE Symposium of Voice, Video, and Data Communications, Multimedia Storage and Archiving Systems VI*, Boston, MA, September 1999.